



10007276-1

Amendment B (After Final)

1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Name: Kelli H. Kennedy, et al.

Date: 7/26/2005

Serial No. 09/874,432

Examiner: Joseph R. Maniwang

Filed: 06/04/2001

Art Unit: 2144

Docket No.: 10007276-1

For: Port Monitoring Methods and Arrangements for Enhanced Document Distribution

DECLARATION UNDER 37 C.F.R. § 1.131

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am an original, first, and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention titled "Port Monitoring Methods and Arrangements for Enhanced Document Distribution," as identified above.

It is hereby asserted that the invention was conceived and actually reduced to practice in the United States prior to November 30, 2000.

November 30, 2000, is the filing date of the *Dutta* U.S. Patent (No. 6,891,635). Consequently, November 30, 2000 is the effective date of the *Dutta* U.S. Patent.

Accompanying this Declaration is Exhibit "A", a four (4) page Redacted Invention Disclosure Form document signed by each of the inventors on September 6, 2000. On page 1, the Redacted Invention Disclosure Form evidences an actual reduction to practice occurred prior to even the signing date of September 6, 2000. It is asserted that the redacted date within the "Was the invention built or tested?" subsection on page 1 is prior to November 30, 2000.

As indicated above, November 30, 2000 is the effective date of the *Dutta* U.S. Patent (No. 6,891,635).

All statements made herein of my own knowledge are true, and all statements made on information and belief are believed to be true. Further, these statements are made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both (18 U.S.C. 1001) and may jeopardize the validity of the application or any patent issuing thereon.

Full name of inventor:
Inventor's Signature:

Kelli H. Kennedy

Date: 7/26/2005

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Boise, ID 83702

Full name of inventor:
Inventor's Signature:

Darrel Cherry

Date: 7/26/05

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Full name of inventor:
Inventor's Signature:

Garth Schmeling

Date: July 26, 2005

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HP HEWLETT PACKARD	INVENTION DISCLOSURE	PAGE ONE OF <u>4</u>
PDNO <u>10007276</u>	DATE RCVD [REDACTED]	ATTORNEY [REDACTED]

Instructions: The information contained in this document is **COMPANY CONFIDENTIAL** and may not be disclosed to others without prior authorization. Submit this disclosure to the HP Legal Department as soon as possible. No patent protection is possible until a patent application is authorized, prepared, and submitted to the Government.

Descriptive Title of Invention:
Port Monitor Onramp for Document Distribution

Name of Project:
Matrix

Product Name or Number:
Not yet released

Was a description of the invention published, or are you planning to publish? If so, the date(s) and publication(s):
[REDACTED]

Was a product including the invention announced, offered for sale, sold, or is such activity proposed? If so, the date(s) and location(s):
[REDACTED]

Was the invention disclosed to anyone outside of HP, or will such disclosure occur? If so, the date(s) and name(s):
[REDACTED]

If any of the above situations will occur within 3 months, call your IP attorney or the Legal Department now at 1-888-4919 or 870-888-4919.

Was the invention described in a lab book or other record? If so, please identify (lab book #, etc.)
[REDACTED]

Was the invention built or tested? If so, the date:
[REDACTED]

Was this invention made under a government contract? If so, the agency and contract number:
[REDACTED]

Description of Invention: Please preserve all records of the invention and attach additional pages for the following. Each additional page should be signed and dated by the inventor(s) and witness(es).

- A. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).
- B. Problems solved by the invention.
- C. Advantages of the invention over what has been done before.
- D. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams; drawings; samples; graphs; flowcharts; computer listings; test results; etc.)

Signature of Inventor(s): Pursuant to my (our) employment agreement, I (we) submit this disclosure on this date: [08/06/2000].

[REDACTED]	Kelli H. Kennedy	<i>Kelli H. Kennedy</i>	[REDACTED]	[REDACTED]	[REDACTED]
Employee No.	Name	Signature	Telnet	Mailstop	Entity & Lab Name

[REDACTED]	Darrel Cherry	<i>Darrel Cherry</i>	[REDACTED]	[REDACTED]	[REDACTED]
Employee No.	Name	Signature	Telnet	Mailstop	Entity & Lab Name

[REDACTED]	Garth Schmelling	<i>Garth F. Schmelling</i>	[REDACTED]	[REDACTED]	[REDACTED]
Employee No.	Name	Signature	Telnet	Mailstop	Entity & Lab Name

Employee No.	Name	Signature	Telnet	Mailstop	Entity & Lab Name
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(If more than four inventors, include additional information on another copy of this form and attach to this document)

Exhibit A 2/4

5	HEWLETT PACKARD	INVENTION DISCLOSURE	COMPANY CONFIDENTIAL	PAGE <u>2</u> OF <u>4</u>
[Redacted]				
Full Name		Signature		Date of Signature
[Redacted]		[Redacted]		[Redacted]
Full Name		Signature		Date of Signature
[Redacted]		[Redacted]		[Redacted]

Inventor & Home Address Information: (If more than four inventors, include addl. information on a copy of this form & attach to this document)

Inventor's Full Name
[Redacted]

Street
[Redacted]

City _____ **State** _____ **Zip** _____

Do you have a Residential P.O. Address? P.O. BOX _____ **City** _____ **State** _____ **Zip** _____

Greeted as (nickname, middle name, etc.) _____ **Citizenship** _____

Inventor's Full Name
[Redacted]

Street
[Redacted]

City _____ **State** _____ **Zip** _____

Do you have a Residential P.O. Address? P.O. BOX _____ **City** _____ **State** _____ **Zip** _____

Greeted as (nickname, middle name, etc.) _____ **Citizenship** _____

Inventor's Full Name
[Redacted]

Street
[Redacted]

City _____ **State** _____ **Zip** _____

Do you have a Residential P.O. Address? P.O. BOX _____ **City** _____ **State** _____ **Zip** _____

Greeted as (nickname, middle name, etc.) _____ **Citizenship** _____

Signature of Inventor(s): Pursuant to my (our) employment agreement, I (we) submit this disclosure on this date: [09/08/2000].

[Redacted]	Kelli H. Kennedy	[Redacted]	[Redacted]	[Redacted]	[Redacted]
Employee No.	Name	Signature	Telex	Mailstop	Entity & Lab Name
[Redacted]	Darrel Cherry	[Redacted]	[Redacted]	[Redacted]	[Redacted]
Employee No.	Name	Signature	Telex	Mailstop	Entity & Lab Name
[Redacted]	Garth Schmeling	[Redacted]	[Redacted]	[Redacted]	[Redacted]
Employee No.	Name	Signature	Telex	Mailstop	Entity & Lab Name

Exhibit A 2/4

Description of invention: Please preserve all records of the invention and attach additional pages for the following. Each additional page should be signed and dated by the inventor(s) and witness(es).

A. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams; drawings; samples: graphs; flowcharts; computer listings; test results; etc.)

A port monitor is responsible for managing the communications channel, or port, between the Windows spooler and the output device (printer, file). During a print operation, after the job has passed through the driver, the spooler sends the job to the appropriate port monitor, which handles sending the job bits across the communications channel to the destination device. For the Matrix port monitor, rather than sending the job bits directly to a printer or file, it launches a software agent which uploads the job file to a remote server or appliance using FTP or HTTP. This server is then responsible for providing the user with a user interface for delivering that job to a print service like Mimeo.com, to a printer, to email, or to any other service that may be developed in the future.

The software that must be installed on the user's Windows machine is simply the port monitor, a generic PostScript driver, and the Upload Software Agent. The user interacts with the Matrix client code in the same way they perform a normal print operation: from any application, they perform a File->Print, choose the Matrix printer, then the port monitor will perform the file transfer behind the scenes. Also, as new print services become available, no additional software needs to be added to the client's PC, since the server or appliance provides the interface to the newly registered service.

B. Problems solved by the invention.

The Matrix Port Monitor solves the problem of requiring a user to install a separate driver for each print service they would like to utilize. Currently, if a user wanted to send a document to Mimeo.com for printing, binding, and distribution, and wanted to distribute the document to email addresses using HotSend's software, he/she would have to install both Mimeo's and HotSend's drivers. Our approach requires only one driver be installed to create the print job and have it uploaded automatically to a Print Service appliance for distribution to any number of print service providers.

C. Advantages of the invention over what has been done before.
















By adding the capability to upload a file from the port monitor, a world of possibilities is opened up for document distribution. The user is not required to learn a new way of printing in order to access many print services. Our approach is built on top of the normal Windows print model. The user performs a print operation in the usual manner, but now has the ability to send their print job to any of a number of document manipulation and storage services.

D. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).

Current port monitors simply send a print job to a local printer, network printer, or local file; they have no uploading capabilities.

Other technologies that do allow for documents to be uploaded to a server, such as Mimeo, Dazel, and HotSend, utilize a print driver to perform this action, not a port monitor. This means that the user must have a separate driver installed on their client PC for each print service they would like to utilize. In HP's new service-based printing world, where users interact with potentially dozens of print shops, this could mean dozens of drivers would have to be installed on each client. The Matrix approach, however, is designed to work with one client driver.

Signature of inventor(s): Pursuant to my (our) employment agreement, I (we) submit this disclosure on this date: [09/06/2000].

	Kelli H. Kennedy				
Employee No.	Name	Signature	Telnet	Mailstop	Entity & Lab Name
	Darrel Cherry				
Employee No.	Name	Signature	Telnet	Mailstop	Entity & Lab Name
	Garth Schmeling				
Employee No.	Name	Signature	Telnet	Mailstop	Entity & Lab Name

Write in dark ink on front side only please?

IPS — LaserJet		Yes	No
[Redacted]		[Redacted]	[Redacted]
[Redacted]		[Redacted]	[Redacted]
[Redacted]		Yes	[Redacted]
<input type="radio"/>	[Redacted]	[Redacted]	[Redacted]
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Exhibit A 414

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